

**Title:** Method for preparing potassium sulfate by using sulfate type potassium-containing bittern

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**Abstract**

The preparation method of potassium sulfate includes the following steps: drying sulfate type potassium-containing bittern in the sun to obtain crude potassium-magnesium mixed salt, pulverizing and grinding, using bittern saturated by potassium-magnesium mixed salt to make paste, adopting reverse floatation process to remove impurity sodium chloride to obtain refined potassium-magnesium mixed salt, mixing the refined potassium-magnesium mixed salt with potassium chloride and water, making reaction to obtain soft leonite, then mixing the soft leonite with potassium chloride and water, through reaction, to obtain separated potassium sulfate. Its technological process is simple, and the utilization rate of its potassium ion and sulfate radical ion can be respectively raised to above 70% and 65

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